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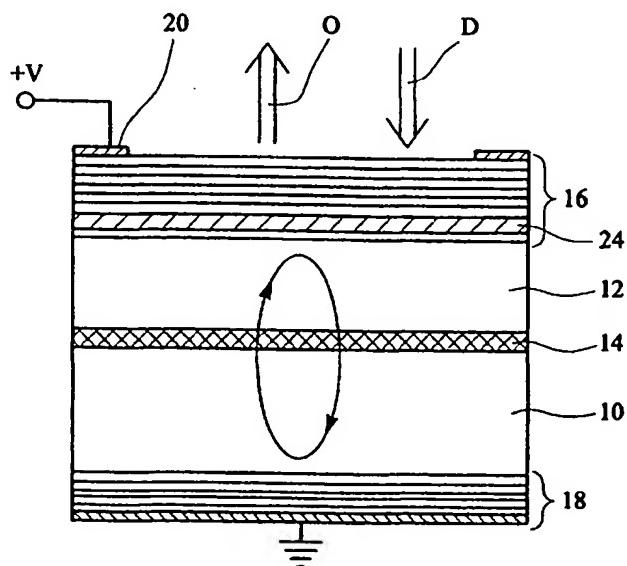
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(54) Title: SEMICONDUCTOR OPTICAL DEVICES



(57) Abstract: A semiconductor optical device (e.g. a resonant cavity device in this form of an LED or a laser) comprises a single substrate arranged for emitting light (0) for incidence on a sample or other element and also responsive to light (D), e.g. of a different wavelength, received back from this sample or other element: the device further comprises means for monitoring a characteristic (e.g. its current-voltage characteristic) which varies in dependence upon the light (D) received back from the sample or other element.

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